AMENDMENTS TO THE SPECIFICATION:

At page 8, please replace the third full paragraph with the following new paragraph:

There is further provided a correlator including a first sub-correlator which receives a fixed pattern having a code length N (N = M x K), as an input signal comprised of signals obtained by spreading a fixed word having a length of K symbols symbol (K is a predetermined positive integer), at a rate of M chips/symbol (M is a predetermined positive integer), and detects a correlation value between a k-th ($\underline{0}$ e < k < K) symbol having a M chip length, among the fixed pattern, and pseudorandom noise code Sm (m is an integer defined as k x M \leq m < (k + 1) x M), and a second sub-correlator which receives data corresponding to K symbols, about a correlation value output from the first sub-correlator, and outputs a correlation value between the data and the fixed word.

At pages 8-9, please replace the bridging paragraph with the following new paragraph:

There is further provided a correlator including a first sub-correlator which receives a fixed pattern having a code length N (N = M x K), as an input signal comprised of signals obtained by spreading a fixed word having a length of K symbols symbol (K is a predetermined positive integer), at a rate of M chips/symbol (M is a predetermined positive integer), and detects a correlation value between a k-th ($\underline{0} \cdot \underline{0} \leq k < K$) symbol having a M chip length, among the fixed pattern, and pseudorandom noise code Sm (m is an integer defined as k x M \leq m < (k + 1) x M), a memory which stores a predetermined number of correlation values per a symbol which correlation values are transmitted from the first sub-correlator and are different in a phase from one another with respect to the input signal, and which stores correlation values totally corresponding to K symbols symbol, and a second sub-correlator which receives data corresponding to K symbols, read out of the memory every the predetermined number,

5

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and outputs a correlation value between the data and the fixed word.

At page 9, please replace the first full paragraph with the following new paragraph:

There is further provided a correlator which receives a fixed pattern having a code length N (N = M x K) which fixed pattern is obtained by spreading a fixed word having a length of K symbols symbol (K is a predetermined positive integer), at a rate of M chips/symbol (M is a predetermined positive integer), including a first subcorrelator which receives the fixed pattern as an input signal, and detects a correlation value between a k-th $(0 \circ \leq k < K)$ symbol having a M chip length, among the fixed pattern, and pseudorandom noise code Sm (m is an integer defined as $k \times M \le m \le (k + 1)$ + 1) x M), a memory which stores a predetermined number (L) of correlation values per a symbol which correlation values are transmitted from the first sub-correlator and are different in a phase from one another with respect to the input signal, and which stores L x K correlation values totally corresponding to K symbols symbol, a readingaddress controller which outputs a reading-address used for reading data corresponding to K symbols symbol out of the memory by every L correlation values, and a second sub-correlator which receives the data corresponding to K symbols symbol, read out of the memory by every L correlation values, and outputs a correlation value between the data and the fixed word.

At pages 12-13, please replace the bridging paragraph with the following new paragraph:

The first sub-correlator 10 receives an input signal 11 and coefficient series Si (i = 1, 2, ---, M) having a length M, used for detecting correlation with the input signal 11, detects correlation (multiplication and addition) between them, and outputs the correlation value 12. The second sub-correlator 20 receives the correlation value 12 transmitted from the first sub-correlator 10, and coefficient series Ui (i = 1, 2, ---, ---)

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K) used for detecting correlation with K output series of the correlation value 12, detects correlation between them, and outputs a correlation value 21.

At page 13, please replace the fourth full paragraph with the following new paragraph:

For instance, if the correlator illustrated in FIG. 8 were comprised of the first sub-correlator 10 and the second sub-correlator 20 both illustrated in FIG. 1(a), a time necessary for calculation of a correlation value is in proportion to not $(M \times K)$ (M + K), but (M + K).

At page 14, please replace the first full paragraph with the following new paragraph:

The first sub-correlator 10 receives an input signal 11 and coefficient series Si (i = 1, 2, ---, M) having a length M, used for detecting correlation with the input signal 11, detects correlation (multiplication and addition) between them, and outputs the correlation value 12. The second sub-correlator 20 receives the correlation value 12 transmitted from the first sub-correlator 10, and coefficient series Ui (i = 1, 2, ---, K) used for detecting correlation with K output series of the correlation value 12, detects correlation between them, and outputs a correlation value 22. The third sub-correlator 30 receives the correlation value 22 transmitted from the second sub-correlator 20, and coefficient series Vi (i = 1, 2, ---, L) used for detecting correlation with L output series of the correlation value 22, detects correlation between them, and outputs a correlation value 21.

At page 14, please replace the second full paragraph with the following new paragraph:

In the correlator illustrated in FIG. $\underline{1(b)}$ $\underline{1(e)}$, a total length of the first to third sub-correlators 10, 20 and 30 is equal to (M + K + L). Hence, the correlator can



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significantly reduce a circuit size in comparison with a conventional correlator (length $= M \times K \times L$) corresponding to the correlator illustrated in FIG. 1(c). In addition, it is possible to increase an operation rate in calculation of a correlation value.

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